DIRECT TESTIMONY OF MARTIN K. PHALEN ON BEHALF OF SOUTH CAROLINA ELECTRIC & GAS COMPANY DOCKET NO. 2010-5-G

1	O	PLEASE STATE YOUR NAM	ME, BUSINESS	ADDRESS AND	POSITION.

2	A.	My name is Martin K. Phalen, and my current business address is 220
3		Operation Way, Cayce, South Carolina. I am employed by South Carolina
4		Electric & Gas Company ("SCE&G" or the "Company") as Vice President, Gas
5		Operations.

6 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND BUSINESS

BACKGROUND.

Following my graduation from the College of Charleston in 1977, I was employed with Cummins Engine Company in Charleston, South Carolina, where I held various management and executive-level positions. In 1988, I joined SCE&G. Since that time, I have held executive-level positions in Human Resources & Administration, Operational Support, and, effective May 2003, Gas Operations. I am a former member of the Board of Directors for the Southeastern Electric Exchange, a current member of the Executive Council for the Southern Gas Association, and a member of the Southern Gas Association's distance learning committee.

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1 Q. WHAT ARE YOUR DUTIES AS VICE PRESIDENT, GAS OPERATIONS?

As Vice President, Gas Operations for SCE&G, my corporate responsibilities include, among other things, oversight of the daily operations of SCE&G's natural gas distribution system, including maintenance, construction, and gas sales.

Additionally, I am responsible for the overall reliability of the system, which includes ensuring that the system is capable of providing safe and reliable service to our customers.

8 Q. WHAT IS THE PURPOSE OF THIS PURCHASED GAS ADJUSTMENT 9 ("PGA") PROCEEDING?

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By Order No. 87-898, dated August 14, 1987, the Public Service Commission of South Carolina ("Commission") instituted an annual PGA review of SCE&G's gas purchasing policies and practices. These PGA reviews are conducted to determine the prudence of SCE&G's gas purchasing policies and practices during the period under review and to determine if SCE&G properly applied its tariffs in recovering its gas costs.

It is worth noting that in every PGA review, the Commission has found that SCE&G's gas purchasing policies and practices were prudent and that the Company properly adhered to the gas cost recovery provisions of its gas tariff and applicable Commission directives and orders.

In this PGA proceeding, the Commission will hear from personnel who implement SCE&G's gas purchasing practices and policies and who address tariff issues on a day-to-day basis. Their testimony specifically relates to the period

under review, August 1, 2009 through July 31, 2010 ("Review Period"). J. Darrin Kahl, Manager – Supply & Asset Management, explains SCE&G's gas purchasing practices, gas supply and interstate pipeline capacity and discusses financial hedging. Alice A. Fox, Manager of Regulatory Accounting and Gas Rates, discusses the PGA methodology for recovering the cost of gas implemented by the Company pursuant to Commission Order Nos. 2006-679 and 2009-910.

Q. PLEASE DESCRIBE THE PURPOSE OF YOUR TESTIMONY.

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The purpose of my testimony is to describe SCE&G's natural gas distribution system from an operating standpoint and discuss the primary facilities that comprise the system, including the capacity of the system for serving SCE&G's customers. I will also discuss the construction projects that SCE&G is engaged in which are designed to increase the capacity, reliability, and operational flexibility of SCE&G's system.

Q. PLEASE DESCRIBE SCE&G'S NATURAL GAS DISTRIBUTION SYSTEM FROM AN OPERATIONS STANDPOINT.

SCE&G's natural gas distribution system consists of approximately 16,000 miles of transmission and distribution mains and related service facilities. The Company's distribution facilities range in diameter from 5/8-inch polyethylene to 20-inch steel pipe and carry natural gas under pressures typically ranging from 25 pounds per square inch gauge ("psig") to 1,100 psig in order to deliver safe, reliable natural gas service to approximately 310,000 factories, businesses, and

homes in South Carolina. The Company also maintains 100 metered delivery points through which gas is delivered to SCE&G's system and then distributed by the Company to our customers. SCE&G currently provides natural gas service in all or part of 35 of the 46 counties in South Carolina covering approximately 23,000 square miles.

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6 Q. PLEASE PROVIDE A BRIEF OVERVIEW OF SCE&G'S GAS 7 PURCHASING PRACTICES FOR THE REVIEW PERIOD.

During the Review Period, SCE&G purchased all of its natural gas supply directly from gas suppliers. While Company Witness Kahl will testify on this subject in greater detail, SCE&G's management analyzes and considers the supply and interstate capacity assets of its business on an on-going basis in order to provide safe, reliable, and economical natural gas service in South Carolina. All of the variables related to the growth in our state and the demand of SCE&G's system must be balanced with corresponding supply and capacity needs. Finally, I want to emphasize to the Commission that the Company procured reliable and reasonably priced natural gas supplies during the Review Period.

17 Q. WHAT LIQUEFIED NATURAL GAS ("LNG") FACILITIES DOES 18 SCE&G OPERATE?

A. SCE&G owns and operates two LNG facilities. These facilities are located at Bushy Park near North Charleston, and at Salley, located in western Orangeburg County. The LNG facilities allow SCE&G to store natural gas in liquid form and

inject vaporized gas into SCE&G's system when needed. These assets are used primarily to help meet peak loads on the system and serve as a backup supply of gas in emergency situations.

4 Q. WHAT ARE THE CAPACITIES OF THE LNG FACILITIES?

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The Bushy Park facility has the capability of converting natural gas into a liquid, a process known as liquefaction. It can store up to 980,000 Mcf (thousand cubic feet) of LNG. The Salley facility has the capability of storing up to 900,000 Mcf of trucked-in LNG. LNG must be transported to Salley via truck because Salley does not possess the ability to liquefy natural gas.

HAS SCE&G MADE ANY IMPROVEMENTS TO ITS LNG FACILITIES DURING THE REVIEW PERIOD?

Yes. In Docket No. 2009-5-G, SCE&G informed the Commission that the Company was in the process of upgrading the control systems at both LNG plants. In June 2010, the Company completed the replacement of its LNG control systems and the systems are functional today. In addition to improving SCE&G's control capabilities, the new control systems also allow the Company to electronically collect and trend plant operational data.

18 Q. PLEASE EXPLAIN HOW SCE&G OPERATES ITS LNG SYSTEM.

19 A. SCE&G primarily dispatches its LNG facilities to help meet peak loads on 20 its system during periods of high demand and to serve as a backup supply of gas in emergency situations. At times, however, SCE&G must also dispatch the LNG facilities to manage the Btu (British Thermal Unit) content of gas in storage. This is primarily due to the higher Btu content gases being received from Southern LNG's Elba Island import terminal near Savannah, Georgia. In response to the receipt of higher Btu content gas, SCE&G has adopted a Btu content management strategy that involves using its newly constructed nitrogen blending facilities, completed in 2009, and turning the inventory over more frequently, which reduces the effect of "weathering" whereby the Btu content of gas rises over time while in storage.

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Q. PLEASE DISCUSS THE EFFECTS OF THE 2009-2010 WINTER ON THE COMPANY'S SYSTEM.

The 2009 – 2010 winter was extremely cold. In fact, the 2009-2010 winter was 18% colder when compared to the 2008-2009 winter. Not only was the 2009-2010 abnormally cold, the cold weather was sustained over long periods of time causing demand to increase on SCE&G's system.

In spite of the extremely cold weather, SCE&G's natural gas system functioned as designed and the Company met its natural gas service obligations to its firm customers by providing a continuous, uninterrupted supply of natural gas to our firm customers' homes and businesses. However, the cold weather did require SCE&G to temporarily curtail natural gas service to certain interruptible customers at various points in time during January and February 2010.

1 Q. DID THE COLD TEMPERATURES IMPACT NATURAL GAS USAGE 2 DURING THE REVIEW PERIOD?

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A. Yes. The overall volume of natural gas consumed by SCE&G's customers during the Review Period increased due in large part to the extremely cold winter and lower gas prices. When comparing the 2009-2010 winter to the 2008-2009 winter, natural gas usage increased across all customer classes (firm and interruptible) by approximately 17%. With regard to the Company's firm customers, gas usage within the residential group increased 14%, gas usage within the small general service/medium general service group increased 8%, and gas usage within the large general service group increased 13%. While the bulk of increased gas usage was primarily attributable to the cold weather experienced during the Review Period and lower gas prices, SCE&G continued to experience growth in the number of natural gas customers across all customer classes.

14 Q. PLEASE DISCUSS THE GROWTH ON THE COMPANY'S SYSTEM 15 DURING THE REVIEW PERIOD.

Despite the fact that the sluggish economy and high unemployment rates continue to have a negative impact on residential and commercial construction, SCE&G continues to experience growth on our gas system. During the Review Period, the total number of customers grew by approximately 1.2%.

Q. WHAT STEPS HAS SCE&G TAKEN TO IMPROVE AND EXPAND ITS NATURAL GAS DISTRIBUTION SYSTEM DURING THE REVIEW PERIOD?

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Over the years, SCE&G has consistently improved and expanded its system by adding pipeline to reliably serve its new and existing customers and create operating flexibility on its system. Much of the recent expansion of the system is designed to accommodate population growth throughout South Carolina. For example, during the Review Period, SCE&G improved its gas system in the Myrtle Beach area by completing Phase 1 of a two phase construction project on Highway 9 in Longs, South Carolina, which will serve the Sun Colony development plus future developments on this route. In the Charleston area, the system expansions include the Highway 17A project which will supply natural gas from Highway 176 to Cypress Gardens Road through the Kearnes Crossroads area of new developments in Berkeley County. In the South Aiken/New Ellenton areas, Phase 1 of a three phase project to supply gas to this growth area is completed and Phases 2 and 3 started in September 2010. In the Columbia area, Phase 1 of a three phase project is complete along Langford Road from Highway 21 in Blythewood to the intersection of Bookman Road/Kelly Mill Road. This project will supply gas to the growth areas in northeastern Richland County. These improvements provide the required additional natural gas infrastructure to ensure the safe and reliable delivery of natural gas to our customers in these portions of the state.

1 Q. PLEASE BRIEFLY DESCRIBE THE SAFETY PERFORMANCE OF 2 SCE&G CONCERNING ITS NATURAL GAS SYSTEM.

A. SCE&G has an outstanding safety record due in large part to the Company's safety conscience culture. SCE&G's highest priority is to safeguard and protect those individuals who come into contact with the SCE&G system and product, including employees, customers, and the public at-large. Moreover, the Company employees who work on SCE&G's pipeline system and at the LNG facilities take great pride in safety performance.

SCE&G's outstanding safety record is also attributable to the comprehensive federal and state regulation of natural gas systems. At the federal level, the United States Department of Transportation and the Pipeline and Hazardous Materials Safety Administration, acting through the Office of Pipeline Safety, have developed pipeline safety regulations over the years and are charged with monitoring SCE&G's compliance with these regulations. At the state level, the South Carolina Office of Regulatory Staff monitors the Company's compliance with pipeline safety regulations. These pipeline safety regulations include, among other things, provisions governing pipeline design, construction, testing, operations, maintenance, and emergency response activities. There are also specific requirements for training and qualifying personnel to work on natural gas systems, as well as additional requirements for administering integrity

management programs for gas transmission pipelines. SCE&G operates its natural
 gas system in full compliance with all laws and regulations.

Q. WHAT ARE YOU REQUESTING OF THE COMMISSION IN THISPROCEEDING?

A. The primary commitments of SCE&G continue to be to operate our system in a safe, reliable and efficient manner. Further, our employees are committed to providing outstanding customer service and operational excellence. During the Review Period, the Company prudently managed its business operations, which included the purchase and recovery of its gas supplies and administration of the PGA. Therefore, on behalf of SCE&G, I respectfully request the Commission find that the Company has recovered its gas costs for the Review Period consistent with its tariffs and Commission orders and that it has purchased its gas supplies and administered the PGA in a prudent and reasonable manner.

14 Q. DO YOU HAVE ANY OTHER REQUESTS OF THE COMMISSION?

15 A. Yes. In years past, the Commission has scheduled SCE&G's annual PGA
16 hearing to take place in late June. With future review periods ending on July 31,
17 the Company respectfully requests that the Commission authorize Commission
18 Staff to schedule future PGA hearings for SCE&G in early November.

19 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

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